



**ASHRAE**Advancing HVAC&R to serve humanity
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AND AIR CONDITIONING ENGINEERS****WINDSOR ONTARIO CHAPTER, 141**

Baymar A/C Supply 3200 Jefferson Blvd. - Windsor - Ontario - N8W 2W8

NEWSLETTER**October 13, 2011****Volume: 28 - Issue: 2***Next Meeting:***Tuesday Oct. 18, 2011****LILLY KAZZILLY'S****WINDSOR, ONTARIO**Please confirm your attendance by calling James Smith @ 519 971 0005 or Email: james.smith@jasel.ca**FUTURE MEETINGS:**

Sept. 22, 2011	Kingsville Golf Club
Nov. 22, 2011	Lilly Kazzilly's
Jan. 17, 2012	Lilly Kazzilly's
Mar. 20, 2012	Vista Print – Facility Tour
May 23, 2012	Beach Grove Golf Course

Oct. 18, 2011	Lilly Kazzilly's
Dec. ??, 2011	Social—KEG—Riverside Dr.
Feb. 21, 2012	Distinguished Lecturer- TBA
April. 17, 2012	Windsor Airport – Tour

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October 13, 2011

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GUEST SPEAKER

“ASHRAE AHR Technology Review 2011”



Mr. Bill Davies has 34 years of experience in the HVAC industry as a service technician, instructor and training developer. He is also a Certified Energy Manager and is currently employed by Union Gas as an Institutional Account Manager.

ASHRAE 2011 Air Heat and Refrigeration (AHR) Expo was held in Las Vegas this year. On the show floor, manufacturers display their newest and innovative products in hope to catch the market's eye. Bill Davies attended the show and will review some of the most interesting technologies. He will focus on products that have extraordinary efficiency gains or significantly new applications to the HVAC industry.

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ASHRAE University of Windsor Student Branch News



Guest Lecture on Fluidization & Gasification

September 13, 2011

Mr. Errol Swan, M.A.Sc., P.Eng. (centre in photo to the left), a Mechanical Process Engineer with the City of Windsor was invited to give a guest lecture during the September 13th ASHRAE Student Branch meeting to discuss about Fluidization & Water Treatment and Gasification & Combustion.

Mr. Swan, who is in the Pollution Control Process Engineering & Maintenance Division, presented some aspects of the City of Windsor's goal of achieving net-zero

emissions at the City's two wastewater treatment plants. To achieve this goal, Mr. Swan discussed several renewable energy techniques and highlighted the theory behind them.

Student Branch Election 2011/2012

September 20, 2011

During the September 20th ASHRAE Student Branch meeting, elections were held for the executive positions for the current school year. The race for the positions this year was very tight, with some positions being decided by a single vote. After the voting was completed and the votes were counted, Mr. Mojtaba Ahmadi Baloutaki was elected as the Student Branch President. In his victory address, Mr. Ahmadi looked forward to serving as president.



Executive Team for 2011/2012. From left to right: Brian Cheung (Media & Branch Promotion), Frank Iakovidis (Treasurer), Mojtaba Ahmadi Baloutaki (President), Saeed Zeinalidanaloo (Vice-President) & Albert Wong (Secretary)

You are invited to attend

**St. Clair College &
University of Windsor
Joint Plant Tour
of the U of W
Energy Conversion Centre**

Date: September 29, 2011
Time: 11:00 AM to 12:00 PM

For those who are interested, please RSVP to the ASHRAE U of W Student Branch President (ahmadim@uwindsor.ca) by September 26, 2011



ASHRAE

Engineering for the World We Live In



September 10, 2011



ASHRAE St. Clair College Student Branch News



The St. Clair college student branch executive have had their first meeting and discussed the following :

- First membership meeting time and location
 - September 29th via Skype at 7:30pm
 - Search for the name [ashraestclair](#).
- Discuss with first year students advantages of ASHRAE memberships and complete sign ups.
- Setup Skype account.
- Various upcoming events such as:
 - Fund raising activities such as pasta dinner and raffles
 - ASHRAE Conference in Chicago
 - Upcoming tours and guest speakers (dates TBD)

You are invited to attend

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Date: September 29, 2011

Time: 11:00 AM to 12:00 PM

For those who are interested, please
RSVP

to the ASHRAE U of W Student Branch
President (ahmadim@uwindsor.ca) by
September 26, 2011



Above are the Executives of the ASHRAE St. Clair College Student branch. Left to right Paul Lefebvre, Stephen Geraci, Jason Hunt and Sal Peralta and Dena Barrette who is not in the picture. If you have any questions email them at ashrea@hotmail.com.

ASHRAE University of Windsor Student Branch News

St. Clair College & University of Windsor Tour the University's Energy Conversion Centre



*Left photo: Mark Lambert & Dan Castellan from the U of W with UWindsor ASHRAE Student Branch President Mojtaba Ahmadi Baloutaki;
Top-right photo: Group picture of event attendees with Energy Conversion Centre staff; Bottom-left photo: Thanking Mr. Lambert*

September 29, 2011 – A tour of the U of Windsor's Energy Conversion Centre was held. Around thirty people attended, consisting of St. Clair College and U of Windsor students and our Union Gas sponsor, Bill Davies. This highly technical structure is responsible for all heating, cooling and ventilation purposes around the campus. It also provides the campus with 40% (approximately 4 MW) of its total energy needs through a sophisticated cogeneration system. Electricity is generated through natural gas-fired boilers and a single jet engine which generates 200,000 pounds of steam per hour. The tour consisted of a visit to the various air compressors and water pumps, gas-fired boilers and the control room which oversees the operation of the entire centre and the needs of our University.

Snapshot: Promoting ASHRAE to First Year Engineering Students at the University



U of Windsor ASHRAE Student Branch Executive being introduced by Dr. Carriveau (left) during the first year Engineering Mechanics I class

University of Windsor Student Branch Executives 2011-2012

Mojtaba Ahmadi Baloutaki <i>President</i>	ahmadim@uwindsor.ca
Saeed Zeinalidanaloo <i>Vice-President</i>	zeinalis@uwindsor.ca
Frank Iakovidis <i>Treasurer</i>	iakovid@uwindsor.ca
Albert Wong <i>Secretary</i>	wong11e@uwindsor.ca
Brian Cheung <i>Communications</i>	cheungz@uwindsor.ca



ASHRAE

Engineering for the World We Live In



October 4, 2011



ASHRAE St. Clair College Student Branch News



We had our first Skype meeting with success. During the meeting we were introduced to some new members and discussed the following:

- Upcoming fund raisers including:
 - Pasta dinner (date TBD)
 - Raffles
 - Hotdog lunch at college (date TBD)
- Upcoming tours and guest speakers
- Our first tour of the University of Windsor's Energy Conversion Centre was very much enjoyed and appreciated. Many students (including students from the University of Windsor's ASHRAE Student branch) had a chance to meet up with Mr. Mark Lambert and Dan Castellán.

St. Clair College Student Branch Executives 2011-2011

Stephen Geraci
President

sgeraci@stclaircollege.ca

Paul Lefebvre
Sr. Vice-President

plefebvre@stclaircollege.ca

Sal Peralta
Jr. Vice-President

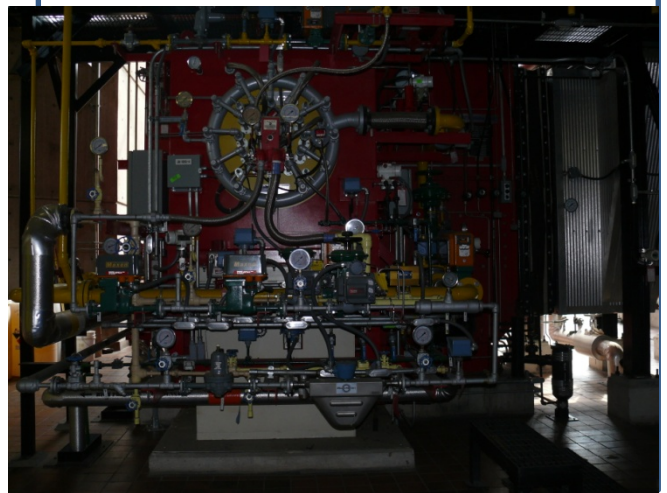
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Jason Hunt
Treasurer/secretary

jhunt@stclaircollege.ca

Dena Barrette

dbarrette@stclaircollege.ca



ashrae@hotmail.ca

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GUEST SPEAKER

The presenter is **Johan Martensson**, Manager of the Creotech Division of Engineered Air.

The topic for this month is

“MODULAR CHILLERS AND HEAT PUMPS”

Johan Martensson is the Engineered Air product manager for CREOTECH modular chillers, pumps skids and heat pumps. Johan received his engineering degree from the University of Western Ontario as well as Ava Gymnasium (Sweden). Prior to joining Engineered Air, Johan was a professor at Humble College in their Mechanical Engineering Technologist program, president of CANATAL INT., started JOTEK manufacturing RotoVane compressors, and founder and president of CREOTECH.

The Presentation will discuss:

Modular chillers bring advantages and features to the chiller market, such as load matching, redundancy, and live change outs and servicing of modules. Issues covered will consider system capacity and EER.

Part two will discuss high temperature heat recovery from ground source. New technologies are available that will produce 160°F water from ground source loops at 30°F in a single lift. Modular systems up to 40TR at these conditions. The applications for heat pump heat recovery units are varies and include space heating, process, domestic water, etc. ...

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OCTOBER 2011

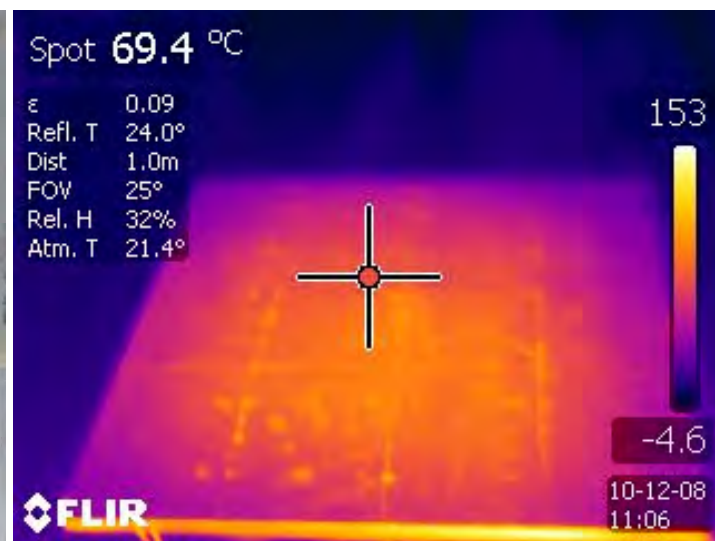
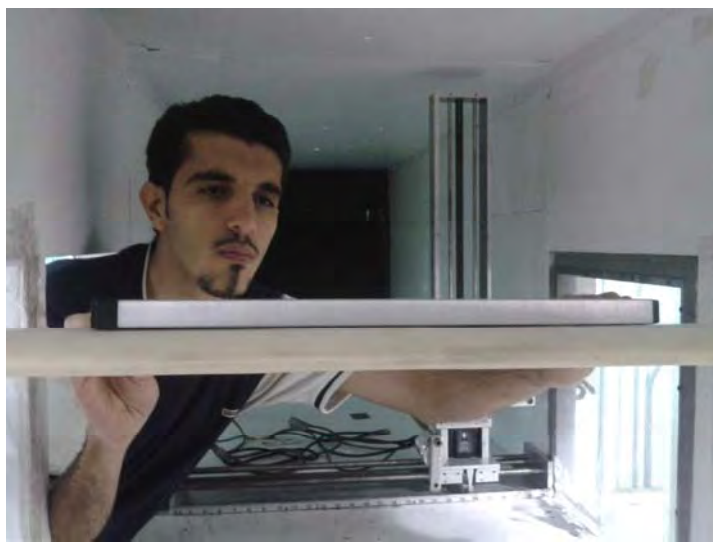
MEETING





ASHRAE University of Windsor Student Branch News

ASHRAE Research! The Lives of the Student Branch Executives – Project Highlights



Left photo: Mojtaba, U of W ASHRAE Student Branch's President is working on his research in the wind tunnel.

Right photo: Thermal imaging on a solar photovoltaic panel model for Frank's project.

November 1, 2011 – The focus on research is an exciting and fundamental aspect of the ASHRAE University of Windsor Student Branch. Every day, members of the branch are hard at work on projects that revolve around the concepts of efficiency and sustainability. Here are some highlights of the work being done by two student branch executives.

Mojtaba is researching the aerodynamics of airfoils, aiming to lower the losses in air distribution imposed by the vortical flow structures around elbows and turns.

The use of properly designed turning vanes can significantly lower major head losses. His research involves detailing the flow around an airfoil and measuring the effective flow parameters using a hot wire anemometer. He will also measure the aerodynamic forces on the airfoils. In the photo, he tries to ensure that the airfoil is properly aligned in the wind tunnel at the beginning of an experiment.

Another project in progress within the U of W ASHRAE student branch is the cooling of solar photovoltaic panels by Treasurer Frank.

When the solar panel temperature increases, especially in the summer, the PV efficiency decreases, resulting in a significant amount of the absorbed solar radiation not being converted into electricity. Also, high temperatures in the panel can have a detrimental effect on other components in the photovoltaic system, which can cause failures. Frank is looking into ways to cool the panels using a combination of passive and active cooling.

Contact the 2011-2012 ASHRAE University of Windsor Student Branch Executives

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President

ahmadim@uwindsor.ca

Saeed Zeinalidanaloo
Vice-President

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Frank Iakovidis
Treasurer

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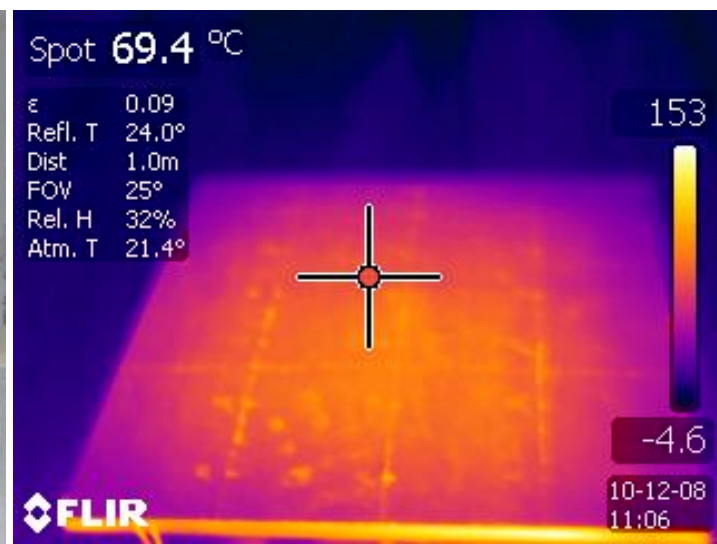
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cheungz@uwindsor.ca

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ASHRAE

Engineering for the World We Live In



November 1, 2011



ASHRAE St. Clair College Student Branch News



This month the ASHRAE Student branch members had a 'behind the scenes' glimpse of Hôtel-Dieu Grace Hospital. The students were able to see how ASHRAE fundamentals were being used in the design and operation of systems. We hope the students enjoyed the trip! A special thank you to Pat Strong for taking time out to showing students around. Thank you Hôtel-Dieu Grace Hospital for a great tour!

ASHRAE PASTA DINNER FUNDRAISER

Pasta dinner fundraiser set for December 1, 2011 !! Everyone come out and support the ASHRAE College student branch. The cost is \$12 for Adults / \$5 for kids and includes all you can eat pasta. It's a great night out as well as a family event. There will be face painting for the kids as well as raffles. Get your tickets early in order to secure your table! For tickets, please see any of the ASHRAE Executives....SEE YOU THERE!!



www.ashrae@hotmail.ca



Above are snapshots of from the tour at Hôtel-Dieu Grace Hospital featuring the St. Clair ASHRAE Branch and Tour Leader Pat Strong

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December 6, 2011

Page 2 of 2

CHRISTMAS SOCIAL

**Tuesday December 13, 2011
5 pm to 7 pm - Keg Downtown**

\$10.00 / person

Includes Appetizers

Please RSVP by Friday December 9, 2011

To

Melissa 519-971-0000 x 0

or

Email: melissa.weldon@jasel.ca

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NOVEMBER

2011

MEETING



ASHRAE University of Windsor Student Branch News

ASHRAE UWindsor Student Branch Explores the Medical Education Building

On Thursday November 24, 2011, the ASHRAE Student Branch toured the university's Medical Education Building, the first LEED-certified building on campus. Mr. Dan Castellán, manager of the Projects & Construction department, showed attendees the many features incorporated into the building's design, such as the Bio-wall and the medical school's facilities, as well as the HVAC systems used. The ASHRAE Student Branch is most grateful to Mr. Castellán for taking the time to lead the tour and granting attendees access to the closed-to-public areas of the building.




Top photo: Dan Castellán and the enthusiastic ASHRAE UWindsor Student Branch tour attendees.

Bottom-left photo: Dan Castellán showing the state-of-the-science building's facility.

Bottom-right photo: Student Branch President Mojtaba presenting a thank-you token to Mr. Castellán.



Support the ASHRAE Student Branch!
Satisfy your thirst @ the ASHRAE FRIDGE!



Drinks and snacks offered at reasonably low prices!
We will not be undersold! Located in Essex Hall 303!

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Communications	



ASHRAE
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December 5, 2011

Page 1



ASHRAE St. Clair College Student Branch News



Great tour at Lambton Generating station!!!

The Power Engineering Students of St. Clair College had a rare opportunity to see behind the scenes at the Lambton Generating Station in Courtright, Ontario. The tour was organized jointly with the student branch Institute of Power Engineers (IPE) and proved to be a valuable insight to the generation of electricity using coal as a fuel.

This gave the first year students an opportunity to see and ask questions regarding the plant in specifics as well as observe the scale of which it operates. Many thanks to Mike Legault for initiating this tour during his months of placement at Lambton.

A special thank you to: Phil Stevens; Carlo Facca; Steve Repergel; as well as all tour guides for the hospitality.



ASHRAE Pasta dinner

Another successful pasta dinner fundraiser. The student branch for St. Clair College were able to enjoy (seemingly) endless pasta courtesy of St. Angela's hall. Many thanks to Stephen Geraci for organizing the event.

A special thank you to Gus Revenburg, La Guardia Cuisine and Pizzeria, Swonderful, Mrs. Deane, Nalco, East Windsor Power, St. Angela's Hall and Centre, and last but certainly not least, Jeff Cowling for all his efforts and involvement with the students for all events!

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GUEST SPEAKER

Mr. Aaron Woods from Schwank Ltd.

Aaron Woods is the Director of Engineered Sales at Schwank Ltd., a Mississauga based manufacturer of gas-fired Infrared heating systems.

Topic – Infrared Heating Systems and Applications

Discussion - Although gas-fired Infrared heating has been around for over fifty years, there are many aspects of the technology that continue to be misunderstood. Many of the heating systems in today's high ceiling applications miss the best opportunity for energy savings, lower the ambient temperature. Using Infrared heating reduces your building heat load.

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<i>Technology Transfer:</i>	Bill Davies	(519) 250 2355
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TOUR - WINDSOR AIRPORT HANGER



Just under \$21 million, the 140,000 square-foot combined hangar and adjoining two story office building will be able to handle Bombardier CRJ and Q400 aircraft and narrow body Airbus planes, with capacity for wide body jets should the market expand. At 74 feet in height, the hangar likely will be the largest open-span building in the city. To accommodate weather conditions, the building envelope is

“highly insulated” with R values “above and beyond the building code. The floor consists of 12-inch-thick cement slabs reinforced with steel fibre to accommodate aircraft weight with in-floor heating system. The hangar door is 224 feet in width consisting of 20-foot-wide individual panel-pocket doors. The two-story office building will have areas such as paint and weld shops on the first floor and offices on the second.

Tour Guide: **Mr. Lou Panontin, P. Eng.**

TourStart Time: 5:00 pm

Enter road off of County Road 42, east of the Airport Terminal and meet at the East side of the building parking lot

Dinner: Ciociaro Club of Windsor 7 pm

Cost: **\$40.00** member, **\$50.00** Non-Member

UPCOMING EVENTS

TUESDAY March 20, 2012 - Transforming An Older Facility into a High Performance Building

Distinguish Lecturer from ASHRAE - Mr. James Newman

Meeting Location: TBD

Dinner Start: 6:30 pm

Cost: \$75.00 Member, \$85.00 Non-Member

TUESDAY April 17, 2012 - TOUR OF JAMIESON LABORATORIES

Tour Guide: Mr. Clint

Tom Start Time: 5:00 pm

Dinner Location; TBD - 7 pm

Cost: \$40.00 Member, \$50.00 Non-Member

WEDNESDAY May 23, 2012 - Past Presidents Night & Student Presentations

Meeting Location: Beach Grove Golf & Country Club

Dinner Start: 6:30 pm

Cost: \$50.00 Member, \$60.00 Non-Member



ASHRAE Webcasts

“Dedicated Outdoor Air Systems – A Path to Balancing Energy and IEQ”

Thursday, April 19, 2012
1 p.m. – 4 p.m. EDT

Tentative Program

1:00 p.m. (EDT) Introduction – Jennifer Gladstone, Moderator

Opening Remarks, Ron Jarnagin, ASHRAE President

Stanley Mumma “*Overview of Dedicated Outdoor Air Systems*”

Tim McGinn “*Architectural Considerations*”

Roundtable Roundtable Discussion

Question & Answer Session

2:30 p.m. Break

John Murphy “*Equipment Configurations*”

Roundtable Roundtable Discussion

Tim McGinn “*Case Studies*”

Question & Answer Session

3:55 p.m. Closing – Jennifer Gladstone, Moderator

Note: Topics, panelists, and scheduled times may change



ASHRAE
Advancing HVAC&R to serve humanity
and promote a sustainable world



February 15, 2012

Page 4 of 7

April 19, 2012 1:00 PM-4:00 PM EDT

Dedicated Outdoor Air Systems: *A Path to Balancing Energy and IEQ*

Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

FREE
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Webcast

Presenters



Ron Jarnagin, 2011-12
ASHRAE President
Staff Scientist | Pacific North-
west National Laboratory |
Richland, WA



Tim McGinn, P.E., LEED AP
Principal | DIALOG | Calgary, AB,
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Stan Mumma, Ph.D., P.E.
Professor Emeritus | Pennsylvania
State University | University Park, PA



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How to Participate

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Sponsored by:



Brought to you by the ASHRAE Chapter Technology Transfer Committee

For more information about the program, presenters, continuing education credits, sponsorships, and DOAS resources please visit us at www.ashrae.org/doaswebcast



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Advancing HVAC&R to serve humanity
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February 15, 2012

Page 5 of 7



JANUARY 2012 MEETING



ASHRAE University of Windsor Student Branch News

Thanks for the Support!

We would like to recognize the following people for their support of the ASHRAE Student Branch's fridge initiative. Due to their contributions, the student branch is able to support various activities. Thank you!



Dr. Bolisetti



Dr. Fartaj



Dr. Cariveau

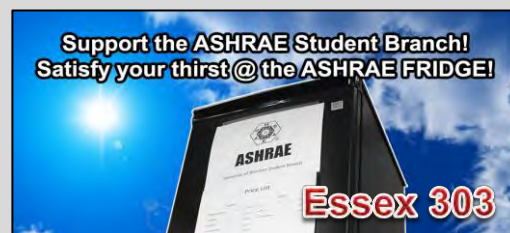
Snapshot: The UWindsor Student Branch at the UWSA Club's Day



ASHRAE UWindsor Student Branch President Mojtaba and Secretary Albert running the branch's booth during the University of Windsor Student Alliance (UWSA) annual Winter 2012 Club's Day on Tuesday, January 24, 2012

ASHRAE University of Windsor Student Branch Executives 2011/2012

Mojtaba Ahmadi Baloutaki	ahmadim@uwindsor.ca
<i>President</i>	
Saeed Zeinalidanaloo	zeinalis@uwindsor.ca
<i>Vice-President</i>	
Frank Iakovidis	iakovid@uwindsor.ca
<i>Treasurer</i>	
Albert Wong	wong11e@uwindsor.ca
<i>Secretary</i>	
Brian Cheung	cheungz@uwindsor.ca
<i>Communications</i>	





ASHRAE

Engineering for the World We Live In



Feb 1, 2012



ASHRAE St. Clair College Student Branch News



This month the St. Clair College ASHRAE Branch went on a joint tour with the St. Clair Institute of Power Engineers Branch at Hiram Walkers Distillery. The plant has had many modifications and additions since its opening in 1858. Some highlights of the tour were

- The new 400ton lithium bromide absorption unit that will provide cooling for the administration zones
- The new plate heat exchanger that has been installed as an energy saving initiative. The system will utilize river water instead of chilled water during the shoulder seasons.
- Water treatment components and chemicals required to treat the incoming river water for plant use.
- The generation of electricity to reduce the amount purchased for process.

The overall tour allowed us insight to how technology and equipment have upgraded to meet process needs and evolving codes and standards. Thanks again Hiram Walkers for the tour!!



February Tour

Metropolitan Hospital

Date of tour Feb 29, 2012 . To attend the tour please attend the meeting or R.S.V.P. via email with subject heading Metropolitan Hospital Tour.

**There are a limited amount of spots.

ashrae@hotmail.com

What benefits does ASHRAE provide the healthcare industry?

- Ventilation air change requirements
- Design and construction of healthcare facilities
- Energy management strategies
- Treating airborne contaminants
- Commissioning

For more information on the topics above or to research further please log on to www.ashrae.org

Join ASHRAE!!

To be a part of the ASHRAE student chapter or have questions regarding the chapter please contact the executive by email at ashrae@hotmail.com



**Windsor
Chapter**

AMERICAN SOCIETY OF HEATING REFRIGERATION
AND AIR CONDITIONING ENGINEERS



Baymar A/C Supply 3200 Jefferson Blvd. - Windsor - Ontario - N8W

NEWSLETTER

March 8, 2012

Volume: 28 - Issue: 7

Next Meeting:

Tuesday March. 20, 2012

DISTINGUISHED LECTURER - CIBPA CENTRE

WINDSOR, ONTARIO

Please confirm your attendance by calling James Smith @ 519 971 0005 or Email: james.smith@jasel.ca

FUTURE MEETINGS:

Sept. 22, 2011	Kingsville Golf Club
Nov. 22, 2011	Lilly Kazzilly's
Jan. 17, 2012	Lilly Kazzilly's
Mar. 20, 2012	Distinguished Lecturer
May 23, 2012	Beach Grove Golf Course

Oct. 18, 2011	Lilly Kazzilly's
Dec. ??, 2011	Social—KEG—Riverside Dr.
Feb. 21, 2012	Windsor Airport – Tour
April. 17, 2012	Tour of Jamieson Laboratories

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President-Elect:	James Smith	(519) 971 0005
Treasurer:	Diane Beresh	(519) 944 1898
Secretary:	Sara Algudady	(519) 817 9208
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Shaping Tomorrow's
Built Environment Today

AMERICAN SOCIETY OF HEATING,
REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.

CHAPTER 141, WINDSOR, ONTARIO

Windsor ASHRAE Chapter welcomes



JAMES L. NEWMAN, CEM, LEED®AP, OPMP, BEAP, FESD

James Newman is an active member of many technical societies and is a heavily engaged speaker on topics relating to energy efficiency and buildings. James has also co-authored 2 books and writes a monthly column for the Detroit ASHRAE Chapter on LEED and Sustainable design. He also acts as LEED project administrator for building projects all over the world.

TRANSFORMING AN OLDER BUILDING INTO A HIGH PERFORMANCE FACILITY

Most buildings, new or old, do not perform anywhere near their most efficient potential. HVAC systems deteriorate with time. Find out what to look for relative to improving the efficiency of the HVAC and lighting systems in a building, learn how to do it at minimum cost by taking advantage of incentives and rebates, and learn how to keep it performing at its potential to save your owner operating and utility costs.

Tuesday March 20th, 2012

CIBPA Centre

995 Howard Avenue (at Erie), Windsor, Ontario

Cocktails (cash bar) from 6:00pm, Gourmet Dinner 6:30 PM

Cost for Presentation and Dinner – ASHRAE & OAA members \$75 Non-members \$85



Please RSVP by Friday March 16, 2012 to JASEL Engineering

info@jasel.ca or phone 519-971-0005 x 0 (leave message)

Please accept our invitation and pass along to others! We look forward to sharing James' insights on efficient building practice and mechanical design with our local building owners, architects, engineers, design build firms and HVAC trades.



Mr. Newman has published numerous papers on Indoor Air Quality, Energy Conservation and USGBC and LEED, and is an internationally recognized speaker on these issues and on Green Design and Efficient Operating and Maintenance practices. His most recent book, co-authored with two attorneys, *Current Critical Issues in Environmental Law – Green Buildings and Sustainable Development*, was published by Lexis Nexis in June 2008.



UPCOMING EVENTS

TUESDAY April 17, 2012 - TOUR OF JAMIESON LABORATORIES

Tour Guide: Mr. Clint
Tom Start Time: 5:00 pm
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1 p.m. – 4 p.m. EDT**

Tentative Program

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Opening Remarks, Ron Jarnagin, ASHRAE President

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2:30 p.m. Break

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ASHRAE
Advancing HVAC&R to serve humanity
and promote a sustainable world

March 8, 2012

Page 4 of 8

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FREE
ASHRAE
Webcast

Presenters



Ron Jarnagin, 2011-12
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March 8, 2012

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FEBRUARY 2012

MEETING





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March 8, 2012

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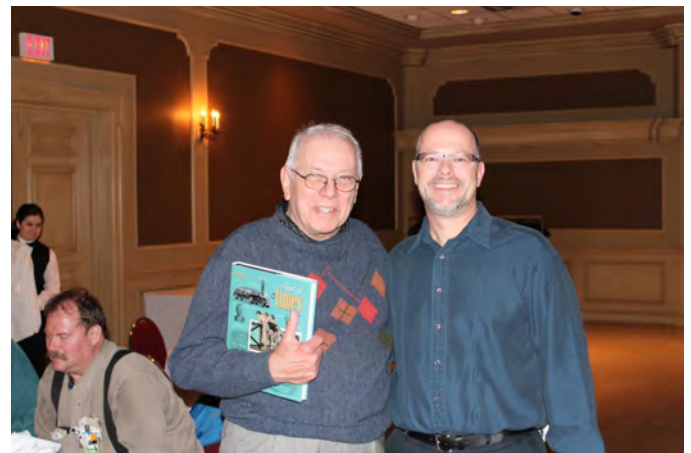


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March 8, 2012

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March 1, 2012



ASHRAE St. Clair College Student Branch News



This month the St. Clair College ASHRAE Branch went on two tours.

Windsor Airport Hanger Tour

The first tour was a joint tour and presentation with the ASHRAE Windsor Chapter of the new Airport Hanger.

Some of the systems and discussions had focused on:

- HVAC design and sizing of the new facility
- 100,000sqft of in floor heating
- Plumbing and drainage systems
- Tight construction timelines
- Hanger to accommodate up to a 747 or 777 plane!



The mechanical contractor gave us a rare opportunity to understand the complexities of the job and what was done to achieve final completion. Thanks again to the Windsor Branch for including the students for Monthly meetings.



Metropolitan Hospital Tour

This student chapter tour was able to get a behind the scenes look at the operation of a hospital. There were numerous specialized systems that were designed using the resources of ASHRAE.

Thank you to the Engineering Staff at Met!

What are the benefits of joining ASHRAE?

- Attend most Windsor Chapter Meetings
- Network with individuals with similar interests
- Mentoring from senior ASHRAE members
- Keep current with new technologies
- For more information on the topics above or to research further please log on to

www.ashrae.org or email ashrae@hotmail.com

Next ASHRAE Meeting!!

The executive is just finishing the final plans on the next event and will be sending out a meeting notice shortly. For further information please contact ashrae@hotmail.com

Join ASHRAE!!

To be a part of the ASHRAE student chapter or have questions regarding the chapter please contact the executive by email at ashrae@hotmail.com

NEWSLETTER

April 13, 2012

Volume: 28 - Issue: 8

Next Meeting:

Tuesday April. 17, 2012

TOUR OF JAMIESON LABORATORIES

WINDSOR, ONTARIO

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Plant tour of Jamieson Laboratories

9475 Twin Oaks Drive



The former W.E.T automotive plant is now home to Jamieson. The building was retrofitted and had a warehouse addition suited for pharmaceutical production. The project completed in 2011 is now in full production and consist of an advance mechanical system. The building has strict temperature and humidity standards that require equipment for dehumidification and also a state of the art building automation system that Jamison uses to help with validation.

Tour Start Time: 5:00 pm
Tour Guides: Clint Smith from Jamieson
Meeting Location: Lobby – 9475 Twin Oaks Drive.
Dinner to Follow Tour: **Armandos**
3202 Walker Road, Windsor, ON N8W 3R8
Time: 6:30 pm
Cost for Tour and Dinner – ASHRAE members \$40
Non-members \$50

Please RSVP by 11 am, Monday April 16, 2012 to JASEL Engineering
info@jasel.ca or phone 519-971-0005 x 0 (leave message)

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11/15/11

To: TC 9.9 members

I received the notice below that Data Center addenda AP to ASHRAE 90.1 – 2010 edition is now out for public review.

Addenda AP (highlighted below) proposes PUE as an alternative compliance path to conformance with Chapter 6 of 90.1, the building energy standard. As noted in the public release, this is a significant issue.

I strongly encourage you to take some time to submit public review comments in support of this industry revolutionizing proposal by clicking on the following link and following the "Instructions for Commenter's" (<http://www.ashrae.org/standards-research--technology/public-review-drafts>). Login is required using your existing ASHRAE user name and password. If you don't have one, you will be able to create it. Scroll down until you see this:

BSR/ASHRAE/IES Addendum ap to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings.

It's a long list, so make sure you select the correct one.

TC9.9 voting members and leadership believe this addenda is extremely important to our industry as it provides a "non-modeling" compliance path to meeting the Standard. This alternative compliance path will enable those highly innovative data centers to continue innovating and pushing the boundaries of new cooling technology without being bound by prescriptive based regulation. However, TC9.9 voting members and leadership do recognize the aggressive requirements of the PUE values proposed, this was necessary to get this alternative compliance path through the 90.1 committee by demonstrating "equivalency" to the current prescriptive path requirements, which require economizers. Note, the PUE values in 90.1 are DESIGN calculations and may be in the form of a hand calculation or other calculation tools as either a peak or annualized value.

Without an alternative compliance path, many innovative forms of cooling technology will no longer be an option where the 2010 edition of 90.1 is adopted by the States, the IECC, and/or the DOE. The 90.1 white paper on TC9.9's website (<http://tc99.ashraetcs.org/>) includes additional background information on 90.1 and its applicability to Data Centers.

If you have any questions or need assistance in submitting any comments, please feel free to contact David Quirk or Rick Pavlak from the committee.

I look forward to your continued support of our industry and ways of improving energy efficiency in Data Centers.



April 19, 2012 1:00 PM-4:00 PM EDT

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Hear leading experts discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

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April 13, 2012

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MARCH 2012

MEETING





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April 13, 2012

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April 13, 2012

Page 7 of 8



Branch Profiles: Jamie Smith



Jamie Smith (left) being welcomed into ASHRAE by Student Branch President Mojtaba (right)

March 30, 2012 – The ASHRAE Student Branch continues to grow at the University of Windsor. We recently got to speak with Jamie Smith, one of the newest members, who is set to begin his Master of Applied Science degree in Civil Engineering at the university this upcoming summer semester.

Q: How did you hear about ASHRAE and what made you decide to join?

A: My research co-advisor, Dr. David Ting, had suggested I consider joining the society to advance my knowledge and keep up-to-date with HVAC technology. Once I learned of the opportunities and resources that would be available to me as an ASHRAE member, it truly was an easy decision to make.

Q: Have you taken the time to partake in any ASHRAE events?

A: I had the pleasure of attending the Windsor ASHRAE Chapter's Distinguished Lecturer meeting last month, where Mr. James Newman presented on the work he has done on improving the energy efficiency of aging buildings. Not only was I able to take in this informative and thoroughly engaging lecture, I also had the opportunity to converse with other members of the Windsor Chapter.

Q: How does your membership in ASHRAE benefit your work?

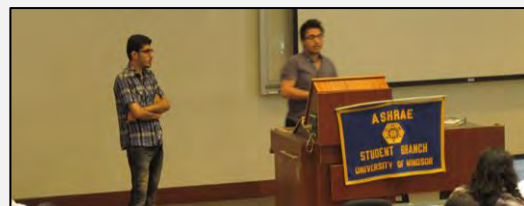
A: One of my current responsibilities is to aid in the ongoing development and evaluation of the University of Windsor's Advanced Professional Certificate course, which integrates theory and real-world case studies to help implement energy management initiatives in the workplace. ASHRAE has done considerable work in establishing standards, particularly for HVAC systems, to help generate savings in building operation costs that can help make real energy management part of a lasting business strategy.

ASHRAE 101: First Year Students

Discover ASHRAE

March 19, 2012 – The University of Windsor Student Branch's President Mojtaba Ahmadi Baloutaki and Vice-President Saeed Zeinalidanaloo gave a **DISCOVER ASHRAE** talk to Dr. Fartaj's first year Engineering Thermofluids class. In this presentation, students were introduced to ASHRAE, the HVAC&R industry, the university's student branch and the benefits to joining the society.

The student branch would like to thank Dr. Fartaj for providing the opportunity and time for ASHRAE to speak.



UWindsor Student Branch President Mojtaba Ahmadi Baloutaki (left) and Vice-President Saeed Zeinalidanaloo (right) giving a talk on ASHRAE and the local student branch

ASHRAE University of Windsor Student Branch Executives 2011/2012

Mojtaba Ahmadi Baloutaki <i>President</i>	ahmadim@uwindsor.ca
Saeed Zeinalidanaloo <i>Vice-President</i>	zeinalis@uwindsor.ca
Frank Iakovidis <i>Treasurer</i>	iakovid@uwindsor.ca
Albert Wong <i>Secretary</i>	wong11e@uwindsor.ca
Brian Cheung <i>Communications</i>	cheungz@uwindsor.ca

Q: How do you feel ASHRAE could attract new members?

A: I am quite confident we will continue to see growth in the industry of energy retrofitting and energy auditing for commercial and industrial facilities. Young people need to be made aware of the vast knowledge base available to them as an ASHRAE member that can prepare them for these new energy management employment opportunities.

April 2, 2012



St. Clair College Student Branch



ASHRAE St. Clair College Student Branch News



THE WINDSOR STAR

★ Check out our
new logo! ★

This month the St. Clair College ASHRAE Branch will be going on a tour of the Windsor Star Printing Facility.

The plant began operation in 1996 and is the source of the local newspaper. Next Month's new letter we will report on how ASHRAE has been utilized. If you are interested in attending please contact the executive or send an email. The tour is scheduled for Thursday April 12, 2012 and there is limited space.



April Tour

Windsor Star Printing Facility

Date of tour April 12, 2012 . To attend the tour please attend the meeting or R.S.V.P. via email with subject heading Windsor Star Tour

**There are a limited amount of spots.

ashrae@hotmail.com

ASHRAE Display Case

The members have been working hard on creating a new and innovative way of displaying ASHRAE information, meeting minutes and tour information. Next month the executive and members are hoping to have their plan implemented. Stay tuned...

Join ASHRAE!!

To be a part of the ASHRAE student chapter or have questions regarding the chapter please contact the executive by email at ashrae@hotmail.com